

## ABSTRACT

Provided are a filter and a method of arranging resonators, which enable forming an attenuation pole and thus achieving excellent frequency characteristics. The filter includes a plurality of resonators. An electromagnetic wave enters through an input end into one of the resonators and exits through an output end from another resonator. The resonators are arranged so that two propagation paths are formed between the input end of one resonator and the output end of another resonator. Forming a plurality of propagation paths allows producing the attenuation pole.